



CARLO GAVAZZI SPACE SpA

ACOP

Tipo Doc.: LIST Doc. Type:		N° DRD: PA14 DRD N°:	
N° Doc.: ACP-LI-CGS-001 Doc. N°:	Ediz.: 1 Issue:	Data: Oct. '05 Date:	Pagina 1 Di 11 Page 1 Of 11
Titolo : Configuration Item Data List/As Built Data List (CIDL/ABCL) Title :			

		Nome & Funzione <i>Name & Function</i>	Firma <i>Signature</i>	Data <i>Date</i>	LISTA DI DISTRIBUZIONE <i>DISTRIBUTION LIST</i>		
					N	A	I
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REGISTRAZIONE DELLE MODIFICHE / CHANGE RECORD			
EDIZIONE <i>ISSUE</i>	DATA <i>DATE</i>	AUTORIZZAZIONE <i>CHANGE AUTHORITY</i>	OGGETTO DELLA MODIFICA E SEZIONI AFFETTE <i>REASON FOR CHANGE AND AFFECTED SECTIONS</i>
1	Oct. '05		First issue of the document for CDR



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1. SCOPE

The Configuration Item Data List / As Built Configuration data List (CIDL/ABCL), establishes the configuration status of ACOP System C.I. 0000 in line with the design carried out for the System CDR.

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2. APPLICABILITY

This document shall be continuously updated, and applicable during all phases of activity concerning the a.m. item, activities undertaken by CGS.

2.1 APPLICABLE DOCUMENTS

The following documents, in the valid latest issue formally agreed with the Agency, form a part of this document to the extent specified herein. Documents referenced in the following specifications, standards, publications and procedures are also a part of this document and are applicable to the extent specified in the text to meet the specifications of this document.

AD #	Doc Number	Issue/date	Rev	Title
1	ACP-SY-CGS-001	3 / Mar. 2005		ACOP System specification
2	ACP-PL-CGS-001	1 / 28/07/2004		Configuration & Documentation Management Plan
3	ACP-PL-CGS-004	1 / Jan. 2005		Verification Plan
4	ACP-SP-CGS-001	1 / Jan. 2005		ACOP Interface Specification (ICD)
5	SSP 52000-IDD-ERP	D / 6/08/03		EXpedite the PROcessing of Experiments to Space Station (EXPRESS) Rack Payloads Interface Definition Document
6	NSTS/ISS 13830	C / 01/12/1996		Implementation Procedures for Payloads System Safety Requirements – For Payloads Using the STS & ISS.
7	JSC 26493	17/02/1995		Guidelines for the preparation of payload flight safety data packages and hazard reports.
8	SSP 50004	apr-94		Ground Support Equipment Design requirements
9	SSP-52000-PDS	March 1999	B	Payload Data Set Blank Book
10	SSP 57066	October 28, 2003		Standard Payload Integration Agreement for EXPRESS/WORF Rack Payloads
11	GD-PL-CGS-001	3 / 17/03/99		PRODUCT ASSURANCE & RAMS PLAN
12	SSP 52000 PAH ERP	Nov. 1997		Payload Accommodation Handbook for EXPRESS Rack
13	SSP 50184	D / Feb. 1996		Physical Media, Physical Signaling & link-level Protocol Specification for ensuring Interoperability of High Rate Data Link Stations on the International Space Program
14	SSP 52050	D / 08/06/01		S/W Interface Control Document for ISPR ***ONLY FOR HRDL, SECTION 3.4 ***
15	ECSS-E-40	A / April 1999	13	Software Engineering Standard
16	AMS02-CAT-ICD-R04	29/08/2003	4	AMS02 Command and Telemetry Interface Control document. Section AMS-ACOP Interfaces
17	SSP 52000-PVP-ERP	Sept. 18, 2002	D	Generic Payload Verification Plan EXpedite the PROcessing of Experiments to Space Station (EXPRESS) Rack Payloads
18	NSTS 1700.7B	Rev. B Change Packet 8 / 22.08.00		Safety Policy and Requirements for Payloads using the STS
19	NSTS 1700.7B Addendum	Rev. B Change Packet 1 1.09.00		Safety Policy and Requirements for Payloads using the International Space Station

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AD #	Doc Number	Issue/date	Rev	Title
20	SSP 52005	Dec. 10, 1998		Payload Flight equipment requirements and guidelines for safety critical structures
21	NSTS 18798B	Change Packet 7 10.00		Interpretation of NSTS Payload Safety Requirements
22	MSFC-HDBK-527	15/11/1986	E	Materials selection list for space hardware systems Materials selection list data
23	GD-PL-CGS-002	1/ 12-02-99		CADM Plan
24	GD-PL-CGS-004	2/07-04-03		SW Product Assurance Plan
25	GD-PL-CGS-005	2/09-05-03		SW CADM Plan

2.2 REFERENCE DOCUMENTS

RD	Doc. Number	Issue / Date	Rev.	Title
1	GPQ-MAN-02	1		Commercial, Aviation and Military (CAM) Equipment Evaluation Guidelines for ISS Payloads Use
2	BSSC (96)2	1 / May 96		Guide to applying the ESA software engineering standards to small software projects
3	GPQ-MAN-01	2 / Dec. 98		Documentation Standard for ESA Microgravity Projects
4	MS-ESA-RQ-108	1 / 28-Sep-2000		Documentation Requirements For Small And Medium Sized MSM Projects
5	PSS-05			Software Engineering Standards
6	GPQ-010	1 / May 95	A	Product Assurance Requirements for ESA Microgravity Payload. Including CN 01.
7	GPQ-010-PSA-101	1		Safety and Material Requirements for ESA Microgravity Payloads
8	GPQ-010-PSA-102	1		Reliability and Maintainability for ESA Microgravity Facilities (ISSA). Including CN 01
9	SSP 52000-IDD-ERP	E / 09/09/03		EXpedite the PROcessing of Experiments to Space Station (EXPRESS) Rack Payloads Interface Definition Document
10	ACD-Requirements-Rev-BL	September 2005	Base Line	ACOP Common Design Requirements Document

3. PRODUCT TREE

At the beginning of ACOP program, a product tree has been prepared to identify and describe the basic design composition at system level and kept updated.
 A dedicated product tree for ACOP shall be kept updated to describe the C.I. composition at lower levels, see Fig. 3-1 for clarification.

Each block on trees shows drawing title and C.I. number (where applicable) or part number of the item.

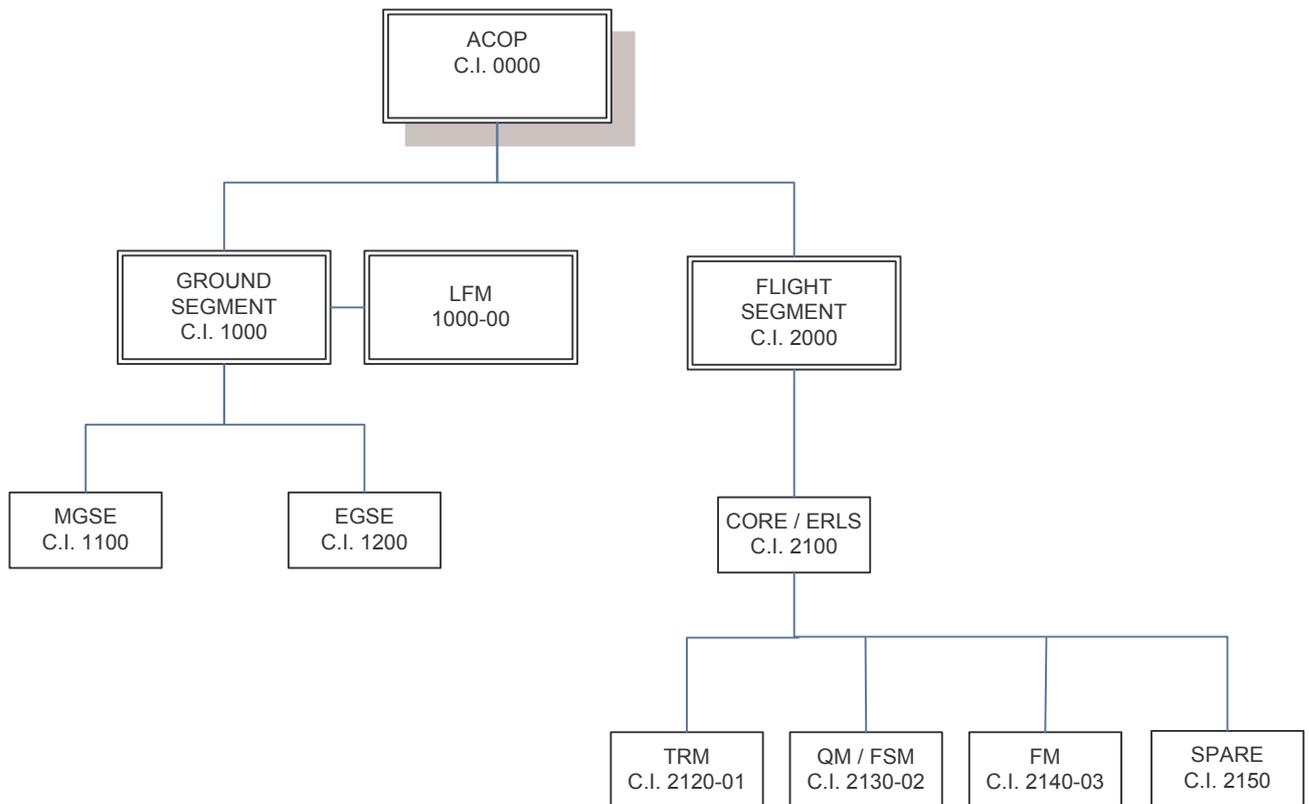


Fig. 3-1 ACOP Hardware Tree

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3.1 DRAWINGS LIST

All the released drawings have been recorded in a drawing index and status list reporting:

- Drawing sequential number
- Drawing identification Number
- Drawing title
- Issue status(first issue of the drawing indicated as / , followed by A, B, etc.)
- N° of sheets
- Size of drawings
- Alterations (approved change authority)

While usually issued as a separated document, the Parts List in case of simple drawings can be part of the first drawing sheet, especially at the lower levels.

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4. CONFIGURATION ITEM DATA LIST (CIDL)

The CIDL, as in the annexed list, is a tabulation of the engineering documentation comprising drawings, specifications, part list and procedures required to manufacture, assembly and test a configuration item. Its content will progressively increase as the design progresses.

Beginning with the design/performance requirements, interface control documents and, as the design is devoted, released manufacturing drawings, until at acceptance it provides the complete engineering "as designed" description configuration.

The CIDL will be mainly divided into two functional sections.

4.1 FIRST SECTION (DOCUMENTS SECTION)

It lists all documents applicable to the design, manufacturing, acceptance, testing relevant to the subjected CI, if any, with their proper issue status/date and any approved but not yet included change.

These documents are the following:

- Performance requirements
- Design and support specifications
- I/F documents
- Parts and materials lists
- Test procedures
- Handling, loading and transport procedures
- List of applicable waivers
- Operations and maintenance manual

These documents shall be subdivided into subsections for clarification.

4.2 SECOND SECTION (DRAWINGS SECTION)

It lists all drawings providing the engineering definition of the CI from the top level assembly down to detail drawings.

The list shall be prepared as described in § 3.1 moreover showing level identification of all the drawings and used quantity of each item.

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5. AS DESIGNED/AS BUILT CONFIGURATION LIST

The CIDL/ABCL compare the current “as designed” configuration with the “as built” configuration, which consists of a list of drawings with their issue/revision index, as they have been applied at manufacturing time.

The “as built” configuration must also identify all manufacturing and test step, equipment items, failure and non conformance documents and all pertinent engineering documentation.

Reconciliation between “as designed” and “as built” status is documented in the ABCL section/columns and all differences will be:

- Non Conformance Reports (NCR)
- Waivers granted

The ABCL section/columns shall be filled in only during manufacturing activity of the Project.

5.1 ANNEX A: (ACOP SYSTEM CIDL/ABCL)

The above mentioned list follows hereafter.